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IDENTIFIER:
TITLE: VESSEL FOR SYNTHESIZING POSITIVE ELECTRODE
ACTIVATING SUBSTANCE FOR CELL

PUBN-DATE: December 23, 1985

INVENTOR-INFORMATION:

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MATSUSHITA ELECTRIC IND CO LTD N/A

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INT-CL (IPC): C01G049/00 , H01M004/58

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ABSTRACT:

PURPOSE: To synthesize uniform CuFeS₂ when Cu₂S and FeS₂ are heated in an inert gaseous atmosphere to synthesize CuFeS₂ as a positive electrode activating substance for a cell contg. an org. electrolytic soln., by using the vessel of a specified shape in synthesis.

CONSTITUTION: When CuFeS₂ as a positive electrode activating substance for a cell contg. an org. electrolytic soln. is synthesized

from Cu₂S and FeS₂, 2mol FeS₂ is well mixed with 1mol Cu₂S, charged into a synthesizing vessel, and heated to 600–700°C in an inert gaseous atmosphere to synthesize the desired CuFeS₂. At this time, an inverted trapezoidal or bowl-shaped vessel inclined gently at 30–60° angle at the side part is used as the synthesizing vessel. Eliminated gaseous sulfur generated during the synthesis reaction separates easily from the reaction product, and synthetic CuFeS₂ having a uniform composition is obtd. without leaving unreacted starting materials.

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